

## Product Data Sheet

### PRYMOS® FIRE EXTINGUISHER SPRAY OFFICE 700 ml

#### 1. Preface, General Statements

A huge fire is always small in the beginning. As long as the flames are locally bounded and have not spread to the surrounding area, a fire can be extinguished successfully with relatively little effort and means. The earlier this happens the less damage will occur, hence a quick reaction is the most important factor in fire-fighting.

A traditional fire extinguisher - located at an unfavourable distance of up to 25 m, manageable only with considerable physical effort and maybe even requiring the study of a manual before use - will not allow a fast response. Accordingly it is important to have an extinguisher available immediately, **ready-to-hand** in case of emergency, **most easily activated** and with **reliable extinguishing power**. PRYMOS Fire Extinguisher Sprays meet each of these demands.

#### - Instant Usability

PRYMOS Fire Extinguisher Spray **OFFICE** is a ready-to-use extinguisher designed for workplaces in office and administration buildings. Its dimensions are those of a big standard spray can (700 ml/26,4 fl oz) and it can easily be stored at work in a cabinet, shelf or fixed by a holder at a significant place (near a first-aid kit, a printer or in a kitchenette), ensuring that the fire extinguisher is easy to reach exactly where fire can arise. In case of fire the customer is able to act as fast as can be and does not lose precious seconds by looking for and getting out a bulky fire extinguisher. Recognized practice standards of behaviour in case of fire must, of course, be fully attended in any case.

#### - Simple and safe application

PRYMOS Fire Extinguisher Spray **OFFICE** is provided with a plastic cap, which can be switched off with only little effort. The spray nozzle can be used like each standard spray nozzle, the customer thus utilizes the aerosol can intuitively and operation errors can be virtually excluded. Quality controlled manufacturing ensures full capacity of operational readiness.

#### - Extinguishing power 8A

The power of an extinguishing system is basically determined by extinguishing agents and extinguishing techniques. PRYMOS Fire Extinguisher Spray **OFFICE** consists of high-performance foams efficient against typical office fires. In the biochemical process of spraying, heavy foam is developed. Its quenching effect is the deprivation of heat and separation of the reactants. This effect is supported by a

homogeneous, cone-shaped geometry of the spray flow as well as the cooling effect of the liquid agent.

With its Fire Extinguisher Spray **OFFICE**, PRYMOS provides professional extinguishing technology for classical office and administration buildings, medical offices and workplaces, i.e. for use by non-experts in fire-fighting. Periodic maintenance or surveillance are unnecessary. Extinguishing system and filling capacity are designed for a one time use; after which the spray should be replaced by a new original PRYMOS fire extinguisher.

The operational liability of the fire extinguisher is granted for 5 years (60 months). In Germany the depleted can has to be introduced into the recoverable substance cycle within the Dual system. Other countries are bound to different recycling systems.

## 2. Execution

The extinguishing agent, PM-A, used in **OFFICE** is free of AFFF (Aqueous Film-Forming Foams). Like all PRYMOS Fire Extinguishers PRYMOS Fire Extinguisher Spray **OFFICE** is designed in a simple 965 ml/33.96 fl oz customary aluminium spray can.

## 3. Specification

The extinguishing power of PRYMOS Fire Extinguisher Spray – **OFFICE** for solid substances (fire class A) was proved by successful extinguishing of standardized unit under testing. The standard BS6165:2002 with the rating of **8A** was recognized for solid materials like wood, paper and textiles. Adequate certificates from a governmental recognized inspection authority for fire extinguishing agents and tools are available (MPA Dresden). The product can be used to extinguish fire at live electrical equipment with voltages up to 1000 Volts (provided that a minimum distance of 1 meter/3.281 ft. is maintained). PRYMOS foams fulfil the required DIN EN standards and are admitted to the governmental recognized inspection authority for fire extinguishing agents and tools.

## 4. Technical Data

Diameter	74 mm/29.1 in
Height	280 mm/11.02 in
Weight	approx. 900g/1,984 lb
Total volume	965 ml/33.96 fl oz
Volume (net)	700 ml/24,637 fl oz
Pressure	approx. 8.5 bars (0.9 MPa) ±5%
Discharge distance	approx. 3 m/11.48 ft
Discharge time	approx. 22 sec.
Discharge medium	Nitrogen
Extinguishing agent	Extinguishing foam PM-A (AFFF-free)
Density:	1.10 g/cm <sup>3</sup> (20°C)
Burst pressure	38 bar
Working temperature	+5°C - +50°C/+32°F - 140°F
Durability	60 months (5 years - ref. date on bottom of the can)

## 5. Description of function

By pressing the spray nozzle the extinguishing agent is released. The extinguishing effect is actively supported by the generated dispersion image.

## 6. Mode of functioning

The high-performance foam is based on an aqueous solution. By means of its heat binding capability water cools down burnt material. At the same time thermic reaction conditions are disturbed with the effect that no inflammable gases and fumes can arise. The degree of droplet dispersion determines an optimal contact surface for heat transfer. Additives change the surface tension of the water and build the film forming foam supported with pressure and geometry of the nozzle. The conflagrative reaction will be stopped by this film forming layer.

## 7. Application areas

PRYMOS Fire Extinguisher **OFFICE** can extinguish fires of solid materials (such as wood, paper, textiles, furniture, etc.). The impregnating effect of the film forming agent can also be used as a heat shield. By the cooling impact hot surfaces can thus be cooled down to a lower level.

## 8. Operation

After removing the cap the extinguishing agent can be sprayed directly - in intervals - into the fire source. Please keep a safe distance!

In case of contact with eyes or mouth flush with plenty of water immediately.

## 9. Storage

PRYMOS Fire Extinguisher Spray **OFFICE** should be stored at a temperature between +5°C and +35°C/+50° to +95° F. The fire extinguisher must be protected from frost and should be stored at a dry place, with easy access. Do not expose to extremely fluctuating temperature ranges.

## 10. Maintenance

Special maintenance is not required. The minimum durability of the product is 5 years (60 months). Please replace the extinguisher spray by a new can after use, even if it is not depleted, at least provide an additional spray in reserve.

## 11. Article packing

PRYMOS Fire Extinguisher Spray OFFICE (Article No. 604)

- Cardboard with 12 PRYMOS Fire Extinguisher Spray cans **OFFICE**
- Full Pallet (660 pcs.)

## 12. Special features

PRYMOS Fire Extinguisher Spray **OFFICE** is not available for fires fed by fats and oils (please refer to PRYMOS Fire Extinguisher Spray Gastronomy).

PRYMOS Fire Extinguisher Spray is provided with a closing cap and control strip, easily recognizable for the customer.

## 13. Authorization

PRYMOS Fire Extinguisher Spray was examined by the MPA Dresden according to BS6165:2002; Official approval forms from the Ministry of the Interior and the Ministry of the environment in North-Rhine-Westphalia (representative reference to the Federal Republic of Germany) for active product marketing measures are available. The extinguishing tool is identified according to German law for device- and product-security. Regulations as per Packaging Ordinance for Aerosols are strictly observed.

## 14. Miscellaneous

The mentioned national standards adhere to "Specification for small disposable fire extinguishers of the aerosol type "BS 6165:2002 and the „Association Francaise de normalisation" NF S 61-804.

You can watch PRYMOS Fire Extinguisher Sprays in action in a video, see:

<http://www.prymos.com>

Prymos GmbH

Siemensstraße 18

D-63225 Langen